## ABBREVIATIONS

A.F.F. ABOVE FINISHED FLOOR
AC ALTERNATIVE CURRENT
ACK ACKNOWLEDGE
BS BEARING TEMPERATURE
C.B. CIRCUIT BREAKER
CCT CIRCUIT
CECO COMMONWEALTH EDISON (
CR CONTROL RELAY
DISC. DISCONNECT
DS DOOR SWITCH CIRCUIT COMMONWEALTH EDISON COMPANY DISCONNECT DOOR SWITCH CIRCUIT EXHAUST FAN DS EF FVNR FULL VOLTAGE NON-REVERSING FVR G.F.I. GND GRF H.P. JB LFP LS LTG MCP MH MM MOD MP N.C. N.O. NIC. SCADA SF SS STA SW GR TDO FULL VOLTAGE REVERSING GROUND FAULT INTERRUPTER
GROUND
GROUND FAULT RELAY HORSEPOWER JUNCTION BOX LOW FLOW PUMP LIMIT SWITCH
LIGHTING
MOTOR CONTROL CENTER
MOTOR CIRCUIT PROTECTOR

MOUNTING HEIGHT MILLIMETER
MOTOR OPERATED DAMPER
MAIN PUMP

NORMALLY CLOSED (CONTACT) NORMALLY OPEN (CONTACT) NOT IN CONTRACT PANEL SUPERVISORY CONTROL AND DATA ACQUISITION SUPPLY FAN

LEAKAGE SENSOR STATION SWITCH SWITCHGEAR TIME-DELAY CLOSE

TIME-DELAY OPEN TP THERMAL PROT TRANSF. TRANSFORMER THERMAL PROTECTION (WINDING) THERMOSTAT UNLESS NOTED OTHERWISE TS U.N.O.

X.P. XFER EXPLOSION PROOF TRANSFORMER XFMR

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1. THIS IS A STANDARD LIST OF ABBREVIATIONS AND SYMBOLS THAT APPEARS IN THIS PROJECT.

**ELECTRICAL SYMBOL LIST** 

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT. NO SCALE HORIZ. DATE: 3/23/2010

DRAWN BY: B.K. CHECKED BY: M.Z.

ELECTRICAL SYMBOL LIST							
SYM	MBOLS FOR ELECTRICAL PLANS	SYMBOLS FOR ELECTRICAL PLANS		SYMBOLS FOR SINGLE LINE DIAGRAM		SYMBOLS FOR CONTROL SCHEMATICS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
NEUTRAL-/	MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS OTHERWISE NOTED. MINIMUM WIRE SIZE SHALL BE 12 AWG, UNLESS OTHERWISE NOTED. CROSS		PUSH BUTTON STATION	(V) (VS)	VOLTMETER  VOLTMETER SELECTOR SWITCH	——————————————————————————————————————	MOTOR STARTER CONTACTS PUSHBUTTON MOMENTARY MAKE CONTACT
GROUND-/	HATCH LINES INDICATE NUMBER OF WIRES		UNIT HEATER		CURRENT TRANSFORMER	-010-	PUSHBUTTON MOMENTARY BREAK CONTACT
	UNDERGROUND DUCT LINE			A	AMMETER	_σ <del>*</del> σ-	PUSHBUTTON MAINTAINED CONTACT
	CONDUIT CONCEALED IN CEILING OR WALLS	(D)	DAMPER GRAVITY TYPE	AS	AMMETER SELECTOR SWITCH		2 OR 3 POSITION SELECTOR SWITCH CLOSED
	CONDUIT CONCEALED IN FLOOR OR UNDER FLOOR	GS	GAS SENSOR	(GFR)	GROUND FAULT RELAY		CONTACTS INDICATED BY "X"
	CONDUIT EXPOSED	FS	FLOAT SWITCH	SS	SELECTOR SWITCH		MULTI-POSITION, MULTI-CONTACT SELECTOR SWITCH CLOSED CONTACT INDICATED BY "X"
	CONDUIT TURNED UP	B	COMPRESSION BELL	-00-	CIRCUIT BREAKER		
<del></del>	CONDUIT TURNED DOWN	,5)	MOTOR, NUMBER DENOTES HORSEPOWER		FUSE	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	INDICATOR LIGHT, LETTER DENOTES COLOR
	PAD MOUNTED TRANSFORMER	cs	CONTROL STATION AS NOTED	-x-	THERMAL OVERLOAD ELEMENT		PUSH-TO-TEST INDICATOR LIGHT
<u></u>	GROUND ROD		(PUSHBUTTONS AND INDICATOR LIGHTS)	₩P/T	POTENTIAL TRANSFORMER	-\-\-\c	RELAY COIL
<b>4 1</b>	JUNCTION BOX	(T)	THERMOSTAT	M	COMMONWEALTH EDISON (C.E.) CO. METER	0	TIME DELAY RELAY
	FLUSH MOUNTED JUNCTION BOX	LS	INTRUSION LIMIT SWITCH	-0-0-	DISCONNECT SWITCH WITH EXTERNAL HANDLE	SYNC	SYNCHRONOUS MOTOR TIME DELAY RELAY
	PANELBOARD	<u>(SD)</u>	SMOKE DETECTOR	XP	30AMP, 3 POLE, 600V U.N.O. NO. NEMA TYPE X.P. EXPLOSION PROOF		CONTACT NORMALLY OPEN
□ x <sub>x</sub>	COMBINATION INTERLOCKED RECEPTACLE AND DISCONNECT SWITCH WITH EXTERNAL OPERATOR	KS	KEY SWITCH			<del></del>	CONTACT NORMALLY CLOSED
₩ XP	3P, 600V, NO.* NEMA TYPE X.P. EXPLOSION PROOF	H	TELEPHONE OUTLET	© XP	EXPLOSION PROOF RECEPTACLE SLEEVE TYPE		
	DISCONNECT SWITCH WITH EXTERNAL OPERATOR	И	DATA OUTLET		EXPLOSION PROOF PLUG PIN TYPE	->-	FLOAT SWITCH, CLOSES ON RISING LEVEL
₽ <sub>4</sub>	30 AMP - 3 POLE, 600V U.N.O., NO.* NEMA TYPE X.P. EXPLOSION PROOF	5	FLUSH MOUNTED PANELBOARD  PANEL TYPE (LIGHTING PANEL)	XP		-o_o_	FLOAT SWITCH, OPENS ON RISING LEVEL
	DUPLEX CONVENIENCE RECEPTACLE GFI-GROUND		LP-1UNIT NUMBER	XP	SPECIAL PURPOSE RECEPTACLE 480V, XP INDICATES EXPLOSION PROOF	TS 5	TEMPERATURE ACTUATED SWITCH CLOSES ON
#	FAULT CIRCUIT INTERRUPTER, WP-WEATHERPROOF COVER, LOCKING	5	SURFACE MOUNTED PANELBOARD	XP		'	RISING TEMPERATURE
	EXPLOSION PROOF RECEPTACLE, 125 VAC STRAIGHT BLADE	마	MANUAL DISCONNECT SWITCH NONFUSED (RATING AS INDICATED)			TS 5	TEMPERATURE ACTUATED SWITCH OPENS ON RISING TEMPERATURE
HX	WALL MOUNTED LIGHTING FIXTURE		MANUAL DISCONNECT SWITCH FUSED (RATING AS INDICATED)			LS	LIMIT SWITCH, NORMALLY CLOSED
\ \times	INCANDESCENT OR HID LUMINAIRE		LIMIT SWITCH			LS ETM	LIMIT SWITCH, NORMALLY CLOSED  ELAPSED TIME METER
¤ ¤	(LETTER DENOTES TYPE) (NUMBER DENOTES CIRCUIT)	_	TRANSFORMER			——[OC]—	OPERATIONS COUNTER
	FLUORESCENT FIXTURE (A) INDICATES		FIRE ALARM PULL STATION				DISCONNECTING PLUG AND RECEPTACLE
A-2a	FIXTURE TYPE - REFER TO FIXTURE SCHEDULE. (2a) INDICATES CIRCUIT NO. 2 ON	UH)	UNIT HEATER OR FAN			<del>-&gt;&gt;</del>	DISCONNECTING FEED AND RECEFTACLE
	SWITCH a TYP.  FLUORESCENT FIXTURE WALL MOUNTED		SOLENOID VALVE			△	TERMINAL DESIGNATION
	FLUORESCENT FIXTURE WALL MOUNTED	SV PS	PRESSURE SWITCH			ø	TENMINAL BESIGNATION
	FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT	MS	120V MANUAL STARTER			0 ]	UNDERGROUND DUCT SECTION
×	INCANDESCENT, COMPACT FLUORESCENT,	LT	LEVEL/TEMP SWITCH			O (B)	⊕ ACTIVE O SPARE
——————————————————————————————————————	OR HID FIXTURE ON EMERGENCY CIRCUIT  CONDUIT SEAL	<del>√</del> "	INDICATES 3 WAY SWITCH 120V SINGLE POLE SWITCH			(SH)	EQUIPMENT IDENTIFICATION TAG
	SPECIAL PURPOSE RECEPTACLE	2a	INDICATES SWITCH CIRCUIT NUMBER XP - EXPLOSION PROOF			(.2 SEC) TDC	OPEN CONTACT WITH TIME-DELAY CLOSE FEATURE
	CONTROL CABLE CONNECTOR	[AV]	AUDIBLE & VISUAL			(.2 SEC)	(SHOWS DURATION)  CLOSED CONTACT WITH TIME-DELAY OPEN FEATURE
							(SHOWS DURATION)  REVISIONS
							NAME DAT
1 -	1	1	İ	1	1		